

Weekly report (2017-4-24-----2017-4-30)

April 30th, 2017, 17:33pm

1. Projects:

1) Geo-privacy

This week Xu Meng organized us to make a meeting about the Geo-privacy project, Xu Meng made a review about this project, and we analyzed the strength and the weakness. At the last of the meeting, we made a plan about this project and agreed to talk once a week.

2) File System

I helped Ya Ting to progress some data in the project of "File System".

2. Skills:

In this week, I continued to read "The Complete Book on AngularJS" from chapter 6 to chapter 10. And I tried to make some practices on projects. I will keep practicing.

Through the project of "File System", I learned the regular expression in C and it helped me split the string.

3. Knowledge:

In the group meeting, Prof. Chen proposed an idea about BI, he also recommended us to read the IBM's "Thought Leadership White Paper". Three points are worth to be concerned, "Descriptive, Predictive, Prescriptive".

Descriptive -- What has happened?

Predictive – What could happen?

Prescriptive – What should happen?

Prescriptive which uses optimization and simulation to ask: "What should we do?". This is what the next step to go?

4. Research:

I read several papers and a book as follows:

- [1] Zheng, Yu, Furui Liu, and Hsun-Ping Hsieh. "U-air: When urban air quality inference meets big data." Proceedings of the 19th ACM SIGKDD international conference on Knowledge discovery and data mining. ACM, 2013.
- [2] Zheng, Yu, et al. "Urban computing: concepts, methodologies, and applications." ACM Transactions on Intelligent Systems and Technology (TIST) 5.3 (2014): 38.

- [3] Liu, Mengchen, et al. "Towards better analysis of deep convolutional neural networks." IEEE Transactions on Visualization and Computer Graphics 23.1 (2017): 91-100.
- [4] Wang, Junpeng, et al. "Multi-resolution climate ensemble parameter analysis with nested parallel coordinates plots." IEEE Transactions on Visualization and Computer Graphics 23.1 (2017): 81-90.
- [5] Ling, Charles X., and Qiang Yang. "Crafting Your Research Future: A Guide to Successful Master's and Ph. D. Degrees in Science & Engineering." Synthesis Lectures on Engineering 7.3 (2012): 1-168.

5. Self-reflection

This week, I finished reading the book which name is "Crafting Your Research Future: A Guide to Successful Master's and Ph.D. Degree in Science & Engineering". I have learned a lot from this book. I think it is a fantastic book that deserves everyone to read.